

# **APPENDIX C** **Implementation Monitoring Form (3/2/15)**

<b>Forest:</b> Eldorado National Forest	<b>District:</b> Placerville	<b>County:</b> Eldorado
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<b>Observers:</b> Steve G. Markman, Hydrologist	<b>Date:</b> June 4, 2015 <b>Time:</b> 1330
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<b>Number and/or name of road or trail:</b> 11N23F	<b>UTM:</b> 10 S 0744673 } at road crossing 4292630 } of meadow
<b>Meadow or Aquatic Feature reference number:</b> 11N23F-1	

Current Conditions	
<b>Current weather:</b> mostly cloudy, a few light sprinkles of rain.	
<b>Has it rained or has snow melted recently? If so, describe event (estimated rainfall amount, duration of storm, etc.):</b> Light rain in past 24 hours.	
<b>Wetness of meadow or aquatic feature</b> _____ <b>Very wet</b> (Standing or flowing surface water present in all or a large portion of feature). (Select the best answer at the time of the survey) _____ <b>Moderately wet</b> (Surface water in part of feature and/or ground surface wet in most of feature). _____ <input checked="" type="checkbox"/> <b>Slightly wet</b> (No surface water. Ground surface wet in part of feature). _____ <b>Mostly dry</b> (No surface water. Ground surface dry in most of feature). _____ <b>Dry</b> (No surface water. Ground surface dry in entire feature).	

Assessment of Corrective Action	
<b>What corrective actions were implemented? Select and fill out appropriate sections below.</b> <input checked="" type="checkbox"/> Rolling dip/waterbars (3) _____ Sediment basin/trap _____ Gravel/rock reinforcement _____ Drivable ford _____ Trail re-route _____ other (describe in section below)	
<b>Rolling dip/waterbar</b> Is water effectively routed off the trail? <input checked="" type="checkbox"/> Yes _____ No Are rills or gullies present? _____ Yes <input checked="" type="checkbox"/> No If yes, for what length? _____ Are they introducing sediment to the aquatic feature? _____ Yes _____ No Does the rolling dip/waterbar need maintenance or reconstruction? _____ Yes <input checked="" type="checkbox"/> No If yes, describe:	<b>Comments:</b> The 3 rolling dips are effectively routing runoff and sediment off of the road before reaching the meadow and stream.
<b>Sediment basin</b> Not applicable. Is the basin effective at catching all sediment? _____ Yes _____ No How full is basin with sediment? _____ empty _____ 25% _____ 50% _____ 75% _____ 100% Does the basin need to be emptied? _____ Yes _____ No Is additional work necessary for the sediment basin to function properly? _____ Yes _____ No If yes, describe:	<b>Comments</b>
<b>Gravel/rock placement</b> Not applicable. Has the gravel/rock remained in place? _____ Yes _____ No Is there bare ground present where rock/gravel was placed? _____ Yes _____ No If yes, how much? _____ <10% _____ 25% _____ 50% _____ >75% Is additional gravel/rock necessary? _____ Yes _____ No If yes, describe:	<b>Comments:</b>

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<p><b>Drivable ford</b> <i>Not applicable</i></p> <p>At the time of the survey, is water present? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Has any part of the hardened approach failed? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, describe:</p> <p>Is sediment being introduced from the approaches at the crossing? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, describe:</p>	<p><b>Comments</b></p>
<p><b>Trail re-route</b> <i>Not applicable</i></p> <p>Is there evidence of erosion or sedimentation on or originating from the new trail segment?  <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, answer the following questions.</p> <p>What is the evidence of erosion or sedimentation?</p> <p><input type="checkbox"/> rill erosion <input type="checkbox"/> gully erosion <input type="checkbox"/> sheet erosion <input type="checkbox"/> rutting</p> <p><input type="checkbox"/> turbid water <input type="checkbox"/> sediment plume or accumulation</p> <p><input type="checkbox"/> change in substrate composition <input type="checkbox"/> other (describe)</p> <p>What are the sources of erosion or sedimentation? Check all that apply:</p> <p><input type="checkbox"/> trail surface <input type="checkbox"/> trail cut-slope <input type="checkbox"/> trail fill-slope</p> <p><input type="checkbox"/> unhardened crossing approach <input type="checkbox"/> poor trail location</p> <p><input type="checkbox"/> rolling dip, water bar, other drainage feature <input type="checkbox"/> inadequate soil cover</p> <p><input type="checkbox"/> insufficient number of water control features <input type="checkbox"/> improper grade</p> <p><input type="checkbox"/> improper construction of water control features <input type="checkbox"/> bare ground on trail</p> <p><input type="checkbox"/> other (describe):</p> <p>Is the erosion or sedimentation impacting an aquatic feature? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, what type of aquatic feature?</p> <p><input type="checkbox"/> stream <input type="checkbox"/> meadow <input type="checkbox"/> wetland <input type="checkbox"/> spring/seep <input type="checkbox"/> fen</p> <p><input type="checkbox"/> other aquatic feature (describe):</p> <p>Describe impacts to aquatic feature:</p> <p>Describe any work necessary to fix erosion/sedimentation issues associated with the re-route:</p>	<p><b>Comments</b></p>
<p><b>Other corrective action (describe):</b></p> <p><i>None.</i></p>	<p><b>Comments</b></p>
<p><b>Has the corrective action resulted in negative impacts elsewhere?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, describe:</p>	

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Is there evidence of motorized use off of the trail? ☐ Yes ☒ No  
 If yes, describe:

Is there evidence of chemical or fuel spills? ☐ Yes ☒ No  
 If yes, describe:

## Criteria for Rating Standard &amp; Guideline 100 of the SNFPA

Does the road or trail intercept and divert surface and/or subsurface water from the aquatic feature such that the aquatic feature has decreased in size and/or wetness? ☐ Yes ☒ No If yes, describe in comments section below.

Has runoff from the road or trail eroded sediment into the aquatic feature such that the size and/or wetness of the aquatic feature has been reduced? ☐ Yes ☒ No If yes, describe in comments section below.

Has runoff from the road or trail caused a stream channel to downcut such that the water table has dropped and decreased the size and/or wetness of an aquatic feature? ☐ Yes ☒ No If yes, describe in comments section below.

## Comments:

The three rolling dips are effectively routing runoff and sediment off of the road before reaching the meadow and stream.

## Findings with Respect to Standard &amp; Guideline 100

☒ Yes. S&G #100 is being met with regard to this trail and aquatic features.

☐ No. S&G #100 is NOT being met with regard to this trail and aquatic features.  
 Must check yes to one or more of the questions above.

☐ I. Inconclusive. Field evidence not sufficient to determine if S&G 100 is being met.

**S&G 100:** Maintain and restore the hydrologic connectivity of streams, meadows, wetlands, and other special aquatic features by identifying roads and trails that intercept, divert, or disrupt natural surface and subsurface water flow paths. Implement corrective actions where necessary to restore connectivity.

SA S. Markman  
 Hydrologist